

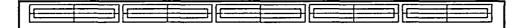
Updating License Renewal Guidance Documents

August 3, 2004

Jerry Dozier

License Renewal and

Environmental Impacts - B



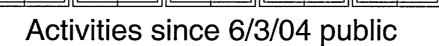
Overview

- Background
- Schedule
- Stakeholder involvement
- Examples of new LR documents**
 - **Examples are work in progress and have not received formal approval
- Specific questions and discussion on NEI submittals



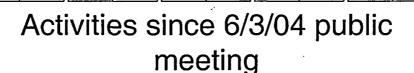
- NUREG-1800, Standard Review Plan for License Renewal Applications for Nuclear Power Plants
- NUREG-1801, Generic Aging Lessons Learned (GALL) Report
- RG 1.188, Standard Format and Content for Applications to Renew Nuclear power Plant Operating Licenses

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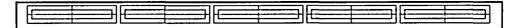
meeting

- - Staff complete line by line review of NEI submittal
 - Resolving open items
- Additional NEI submittal (39 items on 7/30/04)
- Staff comment consolidation from NRC staff, contractors and national laboratory



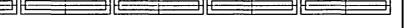
- Development of framework/databases to support project
- Nearing completion of license renewal update section for the license renewal website

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Tentative Schedule

- September 30, 2004 Preliminary draft update to GALL and SRP-LR (Rev A) scheduled to be posted on Web
- November, 2004 Public meeting on GALL and SRP-LR on Web (Rev A)
- January 30, 2005 Publication of draft update to GALL and SRP-LR (Rev B) with draft reference document that provides justification for changes for public comment



Tentative Schedule

- February 1, 2005 to March 30, 2005
 Public Comment Period
- Public Workshop (1 or 2 day workshop scheduled late February or early March during public comment period)

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Tentative Schedule

- 9/30/2005 Final Publication of GALL and SRP-LR (Rev 1) with Bases and Public Comment NUREG



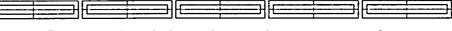
- The GALL update will involve component consolidations, reformatting, correction of errors, and incorporation of <u>approved</u> staff positions (Precedents, Interim staff guidance)
- Corresponding changes to the SRP-LR will also be developed including update to incorporate new review approach.

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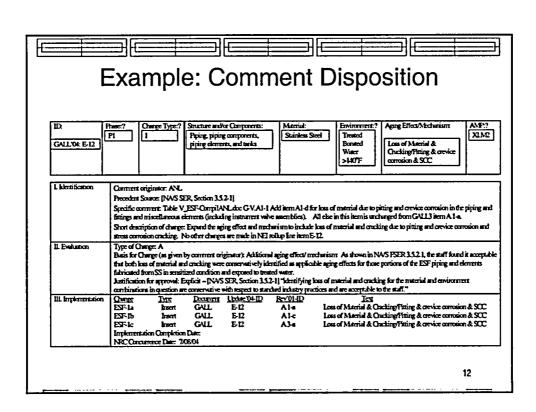
Phase 2

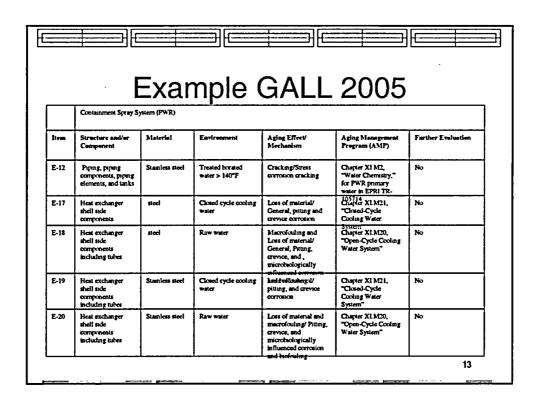
- Phase 2 involves changes such as development of AMPs, additional approved staff positions, and enhancements
- Phase 2 Comments evaluated for incorporation in January 2005 version
- Significant benefit will be achieved with phase 1, but appropriate consideration will be given to all phase 2 comments



Stakeholder Involvement in updating guidance document

- Improvements considered from NEI, NRC staff, Information Systems Laboratories, Inc. (ISL), and Argonne National Laboratory (ANL)
- We welcome any public comments on this update
- September posting on the website is to provide early information to all stakeholders





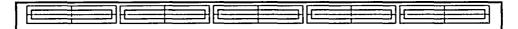
Example GALL 2005 Example GALL 2005 Ar-index uncentrolled None None Note: Scoping/screening and aging management review will continue to apply



GALL 2005 (Added Definitions)

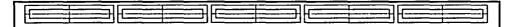
- Definitions provided for materials, environments, aging effects, aging mechanisms, and selected components
 - Cross-system analysis of nomenclature to assure consistency throughout GALL 2005
 - Minimization of unnecessary detail and rollup of similar terms
 - Temperature thresholds for certain aging effects

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Example GALL Definitions

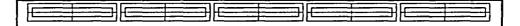
- Materials --- Steel: Carbon steel, alloy steel, and cast iron (NOT stainless steel) may be considered the same for several aging effects. When other aging effects/mechanisms are addressed, materials are specifically mentioned.
- Environment -- Diesel Exhaust: gases, fluids, particulates present in a diesel engine exhaust.
- Aging Effect -- Macrofouling: fouling that causes plugging as opposed to fouling that causes loss of heat transfer.
- Structures & Components -- Piping, piping components, and piping elements: Examples include piping, fittings, orifices, elements, strainers, pump casing and bowl, valve body, bonnet, nozzles, safe ends, and spray head.



Changes to SRP-LR

- SRP-LR changes corresponding to the update in GALL
- Update of review process
- Incorporation of appropriate comments

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Bases Document

Provides justification for changes to the original GALL Report (July 2001)

- General Chapter describing rollup methodology changes and conversion
- Chapter that provides detailed justification for technical changes and additions



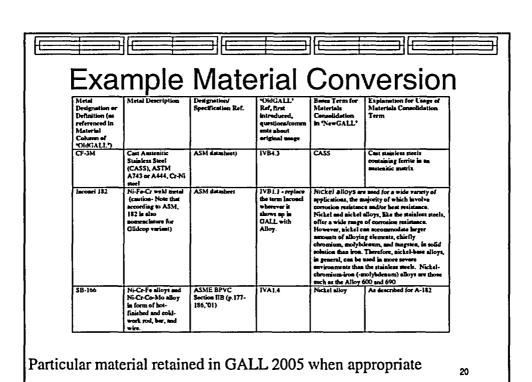
Bases Document – Conceptual Outline

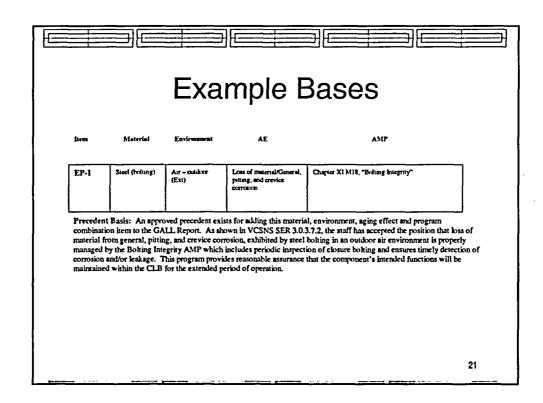
- Section I. Analysis of General Changes in Updated GALL
 - Generalized component descriptions
 - Consolidated materials types
 - Environmental categories & definitions
 - Aging effects & aging mechanisms
 - Attributable and traceable to GALL 2001

Section II. Technical Modifications and Additions

 Justification for technical changes and modifications

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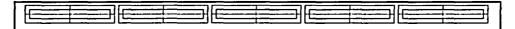




Example Bases (2)

Item	Material	Environment	AE	AMP
EP-5	Steel	Concrete	None	None

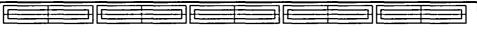
Precedent Basis: An approved precedent exists for adding this material, environment, aging effect and program combination item to the GALL Report. As shown in VCSNS SER 3.3.2.4.21, the staff has accepted the position that steel in a concrete environment exhibits no aging effect and that the component or structure will therefore remain capable of performing its intended functions consistent with the CLB for the period of extended operation. This conclusion is based on the fact that corrosion of embedded steel is not significant if the attributes of the concrete design are consistent with ACI 318-63, in particular a low water-to-cement ratio, low permeability, and adequate air entrainment as cited in NUREG-1557.



Public Comment NUREG

- Document will be developed similar to NUREG-1739, "Analysis of Public Comments on the Improved License Renewal Guidance Documents"
- NRC Staff's analysis of the stakeholders' comments on the license renewal guidance documents during the comment period
 - · License renewal public workshop
 - · Written comments submitted by NEI
 - Written comments submitted by various stakeholders

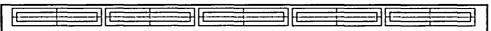
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Example from NUREG 1739

Table C: Disposition of Written Public Comments (continued)

Comment Number	Item Number	Comment/ Proposed Change	Basis for Comment	NRC Disposition
NIRS-4	C.3.13	Additionally, the NRC and industry have provided no "lessons learned" in their GALL approach for assessing demonstrated shortfalls, failures and differing professional opinions in the current process to evaluate aging for the current licensing basis.	These failures and shortfalls can compound to adversely impact the scope and accuracy of generic evaluations within the context of license renewal when overlooked in the evaluation program of the adequacy of generic aging management programs.	The GALL, SRP-LR, and Draft RG have the benefit of the experience of the staff members who are part of the current process in evaluating aging for the current license term and also conducted the review of the initial license renewal applications. Therefore, lessons learned from the current process and from an efficiency and effectiveness standpoint in addressing unique issues related to license renewal from the first reviews have been incorporated into these documents. The GALL, SRP-LR, and Draft RG have been revised to address the issue but not specifically for this comment.



License Renewal Guidance Update Website

Keep all stakeholders informed about schedule and information such as relevant correspondence, meeting notices and summaries, NRC public presentations (coming soon!)

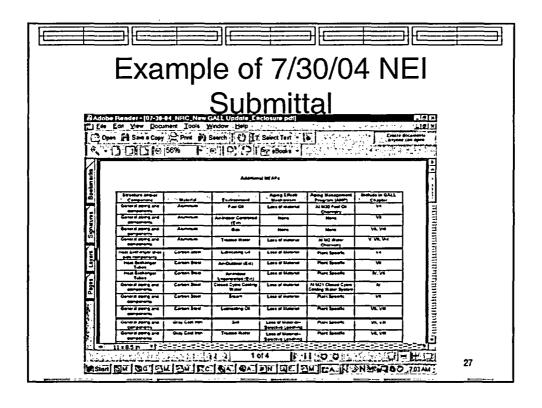
http://www.nrc.gov/reactors/operating/lic ensing/renewal/guidance.html

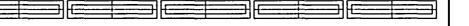
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Comments

- Combinations of MEAP where there is no aging management required will still require aging management review
- Even though GALL will be generalized, where appropriate, the license renewal application must provide specific component names
- Recent operating experience (Davis Besse, finding on nickel alloy issue) will change some items in GALL





Near Term Path forward

- Preliminary draft update to GALL and SRP-LR on September 30
- Proposed public meeting in November